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| APPLICATION NO.  | FILING DATE     | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |
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| 09/973,142   | 10/09/2001      | Ronald J. Biediger   | TEX4542P0403US          | 6739             |
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| ROCKEY, MILNAMOW & KATZ, LTD. TWO PRUDENTIAL PLAZA, STE. 4700 180 NORTH STETSON AVENUE |                 |                      | EXAMINER                |                  |
|  |                 |                      | ROBINSON, BINTA M       |                  |
| CHICAGO, II  | L 60601         |                      | ART UNIT                | PAPER NUMBER     |
|  |                 |                      | 1625                    | 6                |
|  |                 |                      | DATE MAILED: 06/26/2003 | 1                |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary    September   Paper   P |   |  | Application No.   | Applicant(s)   |  |  |  |
|--|---|--|---|--|--|--|--|
| Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Sentences of time may be analysis under the provisions of 37 CFR 1.136(a). In re-earth knower, may a reply be limitly filled. If the period for may spended above, the macroum statutory period will apply and will equips SX (0) MONTHS from the mailing date of the period for may be spended above. The macroum statutory period will apply and will equips SX (0) MONTHS from the mailing date of the communication. If the period for may spended above, the macroum statutory period will apply and will equips SX (0) MONTHS from the mailing date of the communication. If the period for may spended above, the macroum statutory period will apply and will equips SX (0) MONTHS from the mailing date of the communication, even if timely filled, may reduce any sound patient term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on  | Office Action Summary   |  |   |  |  |  |  |
| Binta M. Robinson   1025  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  If the pareod for reply specified above is less than thirty (30) easy, a reply within the statutory reviewurd of the pareod for reply specified above is less than thirty (30) easy, a reply within the statutory reviewurd of the mailing date of this communication.  If the pareod for reply specified above is less than thirty (30) easy, a reply within the statutory reviewurd preview in emiliar glade of this communication.  If the pareod for reply specified above is less than thirty (30) easy, a reply with a give \$2.5 (3) (MONTHS from the mailing date of this communication. If the pareod for reply specified above, the maining date of this communication, even if timely filed, may reduce any seamed patient the adjustment. See 37 CFR 1.70(4).  A reply reply received by the Office later than them contribs after the mailing date of this communication, even if timely filed, may reduce any seamed patient the adjustment. See 37 CFR 1.70(4).  Status  3) Since this application is in condition for allowance excapt for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Queryle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s)  |   |  |   |  |  |  |  |
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| Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Exhibition of information to the processor of 37 CFR 1.35(a). In no event, however, may a reply be simply filed  Exhibition of the processor of 37 CFR 1.35(a) in no event, however, may a reply be simply filed  Exhibition of reply in period above, the machine in thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered simply.  If No period for reply it specified above, the machine in statutory period will apply and will opin SIX (8) MONTHS from the mailing date of this communication. The period of reply its specified above, the machine in statutory period will apply and will opin SIX (8) MONTHS from the mailing date of this communication, even if streety filed, may reduce a my example parent turm edipastment. See 37 CFR 1.764(b).  Status  1) Responsive to communication(s) filed on   | · · · · · · · · · · · · · · · · · · ·                         | The MAILING DATE of this communication and   |   |  |  |  |  |
| THE MAILING DATE OF THIS COMMUNICATION.  Extendence of time may be available under the provision of 37 CPR 1.13(b)(a). In or event, however, may a raply be limity filed after 50 k(b) MONTHS from the mailing date of this communication.  It is provided to the provision of the provision of 17 CPR 1.13(b)(a). In or event, however, may a raply be limity filed after 50 k(b) MONTHS from the mailing date of this communication.  It is provided to the provision of the pr |   |  |   |  |  |  |  |
| 2a)  This action is FINAL. 2b  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-31 is/are pending in the application.  4a) Of the above claim(s) 20-24 and 26-29 is/are withdrawn from consideration.  5)  Claim(s) 1-19.25,26,30 and 31 is/are rejected.  7)  Claim(s)   | THE N - Exter after - If the - If NO - Failui - Any riearne   | MAILING DATE OF THIS COMMUNICATION.  Is is is of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing | within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133). |  |  |  |
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| 5  | •   |  |   |  |  |  |  |
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| 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received:  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)  |   | 1. Certified copies of the priority documents have been received.  |   |  |  |  |  |
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|  | 2) Notice   | e of Draftsperson's Patent Drawing Review (PTO-948)  | 5) Notice of Informal F   |  |  |  |  |

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#### **Detailed Action**

The 101 double patenting rejection of claims 1-19 and 25 are withdrawn in light of applicant's remarks at paper no. 8. The Restriction Requirement at paper no. 5 is FINAL.

### (modified rejection)

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-19, 25, 26, 30, 31 are rejected under 35 U.S.C. 112, first paragraph, because the specification, does not reasonably provide enablement for the radicals R1, R4, R5 forming all heterocyclyl, heterocyclylalkyl, or alkylhetoercyclyl rings or when A is NR6, A, Y=CR1, R1 and R6 coming together to form all possible rings. These rings being formed with electron withdrawing groups in the ortho position have also not been enabled, since rings with only electron withdrawing groups in the meta position have been synthesized. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. The claims as recited are broader than the scope of enablement. The specification lacks direction or guidance for placing all of the alleged products in the possession of the public without inviting more than routine experimentation. The applicant is referred to *In re Wands*, 858 F.2d 731, 737,

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8 USPQ2d 1400, 1404 (Fed. Cir. 1988) which includes the incorporation of the 8 factors recited in *Ex parte* Foreman 230 USPQ 546 (Bd. Of App. And Inter 1986). reasons

There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue". These factors include 1)the breadth of the claims, 2) the nature of the invention, 3) the state of the prior art, 4) the level of one of ordinary skill, 5) the level of predictability in the art 6) the amount of direction provided by the inventor 7) the existence of working examples, and 8) the quantity of experimentation needed to make or use the invention based on the content of the disclosure. In re Wands, 858 F. 2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

In terms of factor 3 and 5, the state of the art and the level of predictability in the art cannot be predicted with any certainty beyond what specific test compounds /compositions and/or additional therapeutic agents should be used and are likely to provide productive results beyond those therapeutic compounds/compositions and/or additional therapeutic agents taught in the specification. Only examples 1-38 were tested for their affects on inhibiting binding to alpha 4 beta 1 integrin.

In terms of factors 4 and 6, the inventor provides no guidance beyond the therapeutic compound/compositions and/or therapeutic agents as taught in the specification as previously mentioned. As a result one of ordinary skill in the art could not predict what other types of therapeutic compounds/compositions and/or additional

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therapeutic agents, other than those taught in the specification; and with regards to the 7<sup>th</sup> and 8<sup>th</sup> wands factor, while the existence of working examples are limited to the aforementioned compounds/compositions as taught in the specification (example 1-38), an indeterminate quantity of experimentation would be necessary to determine all potential therapeutic compounds/compositions' effects on inhibition of alpha 4 beta 1 integrin.

In terms of the 8<sup>th</sup> Wands factors, undue experimentation would be required to make or use the invention based on the content of the disclosure due to the breadth of the claims, the level of predictability in the art of the invention, and the poor amount of direction provided by the inventor. Taking the above factors into consideration, it is not seen where the instant claim is enabled by the instant application.

## **Response to Applicant's Remarks**

### 112, first paragraph rejection

The applicant alleges that the amendment of claims 1-19, 25, 26, 30 and 31 overcomes the 112, first paragraph enablement rejection. However the applicant is still claiming compounds of the formula as claimed in claim 1 where R1, R4, R5 form any heterocyclyl, heterocyclylalkyl, or alkylheterocyclyl ring, or when A is NR6, A, Y=CR1, R1 and R6 come together to form all possible rings which have not been enabled. The applicant has not synthesized compounds where R1, R4, R5 can form the full scope of heterocyclyl, heterocyclylalkyl, or alkylheterocyclyl rings being claimed or when A is NR6, A, Y=CR1, R1 and R6 come together to form all possible rings. Nor has the

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applicant enabled these rings being formed with electron withdrawing groups in the ortho position since rings with electron withdrawing groups in the meta position only have been synthesized.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binta M. Robinson whose telephone number is (703) 306-5437. The examiner can normally be reached on M-F (9:30-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alan Rotman can be reached on (703)308-4698. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-7922 for regular communications and (703)308-7922 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0193.

Binta Robinson

April 16, 2003

ALAN L. ROTMAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600

alan I Rotman

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